

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An orthogonal frequency division multiplexing (OFDM) signal frame sync signal generator, comprising:

a bandpass filter adapted to remove a portion but not all of a signal corresponding to at least one digital channel from a received OFDM signal; and

an OFDM frame synchronizing correlator adapted to generate a frame sync signal based on a detected correlation of a cyclically extended portion of a data frame in said received OFDM signal after processing by said bandpass filter.

2. (previously presented) The OFDM signal frame sync signal generator according to claim 1, wherein:

said portion of said at least one digital channel is a portion in a frequency domain farthest from a center frequency of an analog channel contained in said received OFDM signal.

3. (previously presented) An orthogonal frequency division multiplexing (OFDM) signal frame sync signal generator, comprising:

a bandpass filter adapted to remove a portion of a signal corresponding to at least one digital channel from a received OFDM signal; and

an OFDM frame synchronizing correlator adapted to generate a frame sync signal based on a detected correlation of a cyclically extended portion of a data frame in said received OFDM signal after processing by said bandpass filter;

wherein said bandpass filter is adapted to remove a significant portion of each of two digital channels from said received OFDM signal.

4. (previously presented) The OFDM signal frame sync signal generator according to claim 3, wherein:

said portion of said two digital channels are respective portions in a frequency domain farthest from a center frequency of an analog channel contained in said received OFDM signal.

5. (original) The OFDM signal frame sync signal generator according to claim 1, wherein:

said bandpass filter is a digital bandpass filter.

6. (original) The OFDM signal frame sync signal generator according to claim 1, wherein:

said OFDM frame synchronizing correlator generates said frame sync signal based on an integrated detection of respectively correlated cyclically extended portions of a plurality of data frames.

7. (currently amended) A method of detecting a timing of a data frame in a received orthogonal frequency division multiplexing (OFDM) signal, comprising:

filtering out a portion but not all of a signal corresponding to at least one digital channel from said received OFDM signal to provide a bandpass filtered OFDM signal;

correlating a cyclically extended portion of a data frame in said bandpass filtered OFDM signal; and

generating a frame sync signal based on a correlation of said cyclically extended portion of said data frame.

8. (original) The method of detecting a timing of a data frame in a received OFDM signal according to claim 7, wherein said filtering comprises:

digitally filtering.

9. (original) The method of detecting a timing of a data frame in a received OFDM signal according to claim 7, wherein:

said correlating correlates respective cyclically extended portions of a plurality of data frames in said bandpass filtered OFDM signal.

10. (currently amended) Apparatus for detecting a timing of a data frame in a received orthogonal frequency division multiplexing (OFDM) signal, comprising:

means for filtering out a portion but not all of a signal corresponding to at least one digital channel from said received OFDM signal to provide a bandpass filtered OFDM signal;

means for correlating a cyclically extended portion of a data frame in said bandpass filtered OFDM signal; and

means for generating a frame sync signal based on a correlation of said cyclically extended portion of said data frame.

11. (original) The apparatus for detecting a timing of a data frame in a received OFDM signal according to claim 10, wherein said means for filtering comprises:

means for digitally filtering said received OFDM signal.

12. (original) The apparatus for detecting a timing of a data frame in a received OFDM signal according to claim 10, wherein:

said means for correlating correlates respective cyclically extended portions of a plurality of data frames in said bandpass filtered OFDM signal.
